

ORIGINAL (Red)

SWAI SITAR

Suite 3, 5090 Central Highway, Pennsauken, NJ 08109 • (609) 663-7995

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION FPA CONTRACT 68-01-6669

MEMORANDUM

TO:

Benton Wilmoth, OSC, U.S. EPA Region III

FrOM:

(4) ol, TAT, Region III

DATE:

10/23/84

TDD# 8410-05

PCS# 3005

SUBJECT:

Preliminary Assessment - Schaffer Electric Company

PCB Site in Minden, West Virginia

Background

West Virginia Department of Natural Resources (DNR) inspector Leroy Gilbert discovered the Schaffer Electric Company (SECO) Site in late September 1984. During his initial inspection he observed several hundred transformers and capacitors in close proximity to the small coal camp of Minden, West Virginia. A four point composite and a grab sample from the drainage ditch to Arbuckle Creek were collected. The samples revealed 26,749 ppm PCB and 1,136 ppm PCB respectively.

Findings

On October 3, 1984 TAT members (b) (4) and (b) (4) met with West Virginia DNR inspectors Leroy Gilbert and Rob Jelacic. The assessment team met with the property owner and secured permission to conduct the assessment. Schaffer Electric Company is an operating firm that builds electric substations for the local coal mining industry. Many of their units incorporated various sizes of transformers, capacitors, switches and other voltage regulation/distribution devices. Mrs. Schaffer instructed her forklift operator to separate the useable transformers in the yard from the ones they had no use for. The operator initiated this operation while the assessment team was present.

A total of approxiately 150 transformers and 50 capacitors were observed. Most of the capacitors were laying on their sides. Several capacitors had broken insulators with heavy oil spillage in the vicinity. Evidence that at least 2 transformers were initially filled with PCB fluids was obtained from nameplate inspections; "chlorextol" and "pyranol" labels were observed.

A total of 8 soil/sediment samples were obtained during the assessment. Sediment samples were taken in Arbuckle Creek upstream and downstream of the confluence of the main drainage ditch. In the main capacitor spillage area, a surface sample and a 12" core sample were obtained. Both samples were saturated with oil. The remaining samples were taken throughout the site

Roy E. Weston, Inc.

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TDD# 3410-05 PCS# 3005 Schaffer Electric Company Page 2

The samples were packed into a cooler and transported to the TAT Region III office. Chain-of-custody protocols were followed throughout transport and shipping of samples.

All samples were shipped to Martel Laboratories in Baltimore, Maryland for tapid turnaround PCB analysis using EPA method 8080. Verbal results are expected by 10/30/84.

Attachments:

- 1) Site sketches
- 2) Chain-of-custody
- 3) Photographs

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Mario Schaffer Equipment	Co
Street Box 310	City Mindon
State # West Vilginia	Zip Code 25827
Telephone (304) 467-3381	
Operator: (If different from Owner)	
Manne	
Street	City
Other agency contact(s) for information	1
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Were instruments calibrated? <u>yes</u>	
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Were samples taken? <u>Jes</u> Is san Description: <u>soil sediment s</u>	samples for PCB andyses
Where analyzed (what lab?)	
Were photographs taken? 1985	
Were photographs taken? 1985 By whom?	
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Hazardous Waste Site Investigation Page 3

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Curtis Eldg., 6th & Vicinal Ltd. .
Philadelphia, Pennsylvania (171)

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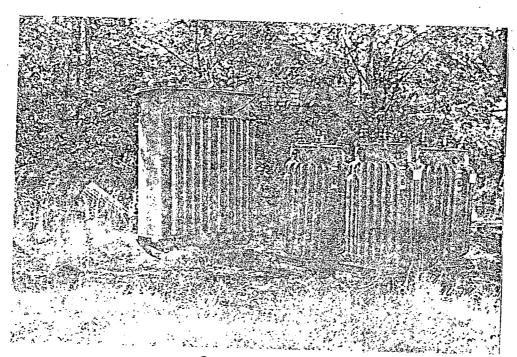
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2. Large transformers in Area A are. Staged on patters,



3. GENERAL VIEW OF THE SITE, NOTE RANDOM STORAGE OF UNITS IN THE VARIOUS AREAS.



4. CLOSE-UP OF#3.

Suite 3, 5090 Central Highway, Pennsauken, NJ 08109

ORIGINA: • (609) 663-7995 (Ked)

ECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-01-6669

MEMORANDUM

TO:

Robert Caron, OSC, EPA Region III

PCS# 3144

THRU:

Thomas I. Massey, Chief

TDD# 8411-42

TUKO:

Emergency Response Section

THRU:

Richard Habrukowich, TATL, Region III

FROM:

Garrett Arai, TATM, Region III

Anne Marie Gohsler, TATM, Region III

DATE:

December 20, 1984

RE:

Schaeffer Electric Site Assessment

Background

The Schaeffer Equipment Company Site was discovered by inspector Leroy Gilbert of the West Virginia Department of Natural Resources (DNR) in late September, 1984. During his initial inspection he observed several hundred transformers and capacitors in close proximity to the small coal camp of Minden, West Virginia. Samples revealed PCBs up to 1,136 ppm. Subsequently, EPA and TAT conducted a preliminary site assessment on October 3, 1984. A total of 8 soil/sediment samples were collected at that time. Samples ranged from 3.0 ppm to over 200,000 ppm PCBs. Additional soil/sediment samples were collected on November 1, 1984. A total of 105 samples were obtained from baseline stations, core samples, runoff ditches and Arbuckle Creek. Results ranged from less than one ppm to more than 200,000 ppm PCBs. When plotted, the results revealed several "hot" spots on site and a gradual off-site migration of PCBs. All lab analysis was done by Martel Labs of Baltimore, Maryland.

Situation

OSC Bob Caron directed the TAT to conduct an additional site assessment since the drums on the Schaeffer property had not been sampled during either of the first two assessments. It was determined that three drum samples would be adequate. In addition, a meeting with officials from the State of West Virginia was held on December 5, 1984. The following people and agencies were represented:

Robert E. Caron
Steven J. Knopp
Ronald A. Shipley
Dr. Abduhl A. Quazi
Pamela Hayes
Steven Wright

EPA/OSC

WV Office of Attorney General WV Dept. of Natural Resources

WV Dept. of Health

WV DNR/Water

WV DNR

Weston TAT

Weston TAT

Roy F. Weston, Inc.

SPILL PREVENTION & EMERGENCY RESPONSE DIVISION

In Association with ICF Inc., Jacobs Engineering Group Inc., C.C. Johnson & Associates, Inc., and Tetra Tech, Inc.,

Page 2

Situation (continued) Highlights of the meeting included the following:

- 1) Sampling results and analysis from the sampling assessment performed on 11/1/84.
- 2) QA/QC of data
- 3) WV DNR's position of the Schaeffer Electric situation from legal standpoints.
- 4) WV Health Department's stance and certification.
- 5) WVDNR's request for Federal assistance.
- 6) Public Relations coordination through State and EPA agreements.
- 7) Possibility of a planned removal.
- 8) Immediacy of threat as indicated through the analysis.

The sampling results proved to be the key in the discussions because of the high values of PCB's contained, and the nature of the materials migrating from the site. The quality assurance/quality control provided by the laboratory was a concern of WVDNR. These concerns were well entertained and justly supported by substantiating documents.

The State's legal department has no regulatory capacity to enforce cleanup since the State of West Virginia does not regulate PCB's. The State also expressed a concern over the possibility of a planned removal situation and did not want this situation to occur again. The State expressed a desire to be involved in all facets of the project. Communications between all agencies were emphasized as extremely important in this matter.

Dr. Quazi of WV Health Department and Pam Hayes of WVDNR were the key people in certification of the threat posed by this site and will forward the State's position on this situation to the EPA. In addition, they will submit a formal request for assistance.

TDD# 8411-42 PCS# 3144 Schaeffer Electric Assessment

Page 3

Situation (continued)

On December 6, 1984 TAT performed a drum assessment and sampling of the Schaeffer Electric property. Three (3) drums were sampled and the results were as follows:

Station 01	2.0 ppm	PCB (Aroclor 1260)
Station 02	147.0 ppm	PCB (Aroclor 1260)
Station 03	5.7 ppm	PCB (Aroclor 1260)

As a result of this analysis, Station 02 was identified as a PCB product. The other 2 drum samples will be analyzed for the full priority pollutant analysis to identify the contents of the drums.

An HNU photoionizer was utilized during the drum sampling assessment. Findings were as follows:

Station	01	2	ppm
Station	02	>20	ppm
Station	03	6	ppm

Photographs of the drums and the assessment are attached for reference. In addition, a site sketch indicating the locations of the photographs has been included. Painted markings on drum #1 was "Transformer #55". Drum #2 (which may have been reused) was labeled Dow "Dowtherm 209 Coolant". Drum #3 was bulging on both ends, and no markings were apparent.

The samples are being analyzed by Martel Labs under special project number 8412-S3, 0330. A proper chain-of-custody was utilized during shipment to the laboratory. Proper QA/QC procedures and techniques were pre-arranged prior to analysis and are being utilized by the laboratory.

A site sketch, is attached to reference the drum sample locations.

Also attached are pictures of pathways (see photos 4 and 5, 6 and 7) utilized by children passing through the property. Photo #7 shows childrens' toys on site. Although there is a gate, Mrs. Schaeffer has stated children in the surrounding area utilize the property as a throughway.

SCHAFFER ELECTRIC SITE ORIGINAL (Red) BUILDINGS BUILDINGS **06** - DRAINASE SHOP SHED GATE PAD SHEDS OFFICE (18) CREEK (8) TRANSFORMERS 180 AROUCKLE 0 00 6 00 6 000 (E) HOUSE (ABANDONED) TRANSFORMERS 3 TRANS DO DRUMS B HOUSE (ABANDONED) (3) · HYDRANT (17) BASKETBALL 060 L OLD FOUN DATION GATE 56 HOUSES (OCCUPIED)

NUMBERS INDICATE PHOTO #

ROMAN NUMERALS INDICATE
DRUM SAMPLE NUMBERS

DRUM INSPECTION LOG

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	EXPLOSIVE OTHER		
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DRUM INSPECTION LOG

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pH	P,	APERMETER	
Drum Size:55-ga	allon42-gallor	30-gallon	5-gallon
Amount of Contents:	one-fourth	less than one-four	th
Sample Method: Pipe			
Drum Markings:	Dowtherm 20	sq Colant	
Additional Comments:	147 ppm PCB	H·NU ro	ading
>20 ppm			
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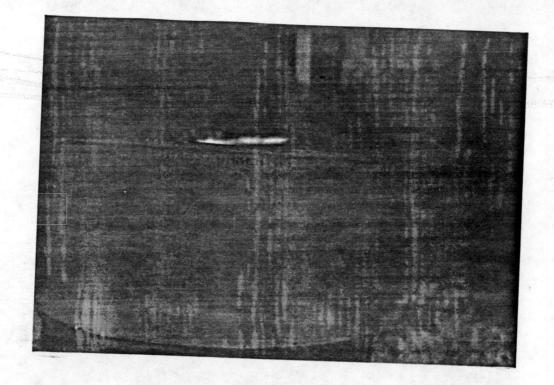


Photo #1 "Transformer 55" (Station 01)
Drum marking indicating transformer fluids.

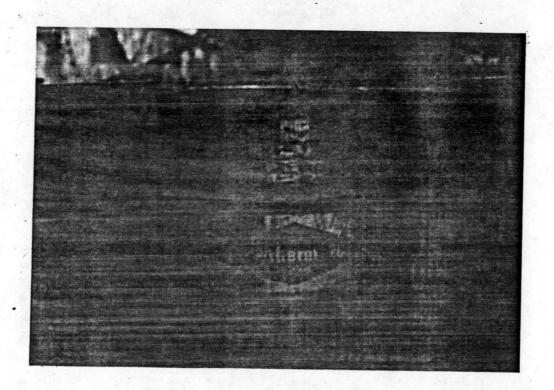


Photo #2 Dowtherm 209 (Station 02)
Coolant
PCB (Archlor) indicated 147 ppm.

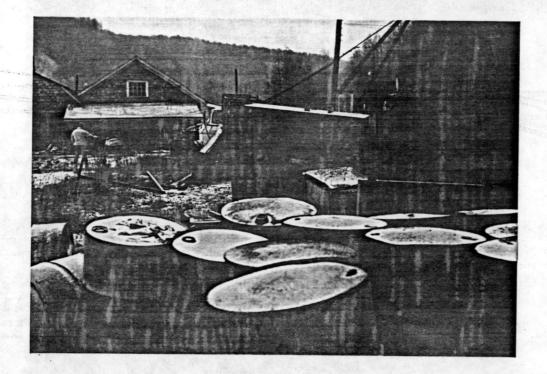


Photo 3: Bulging drum (Station 03)
PCB analysis indicated 5.7 ppm arclor.

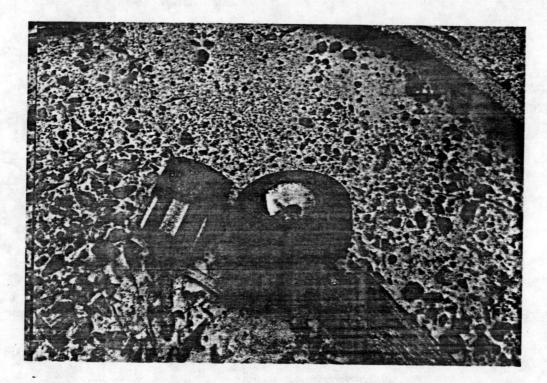


Photo 4: Children's toys on site.

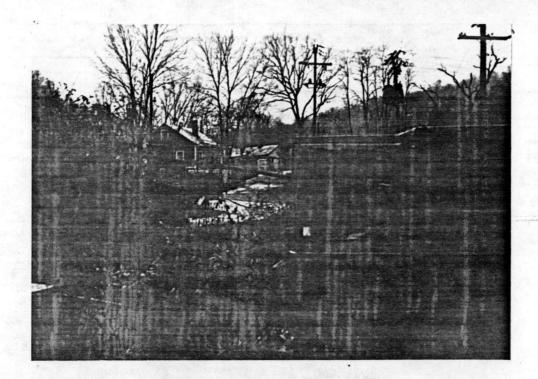


Photo 5 and 6: Pathways utilized by neighboring children as a thru-way and playground.

Close proximity of site in relation to residents.

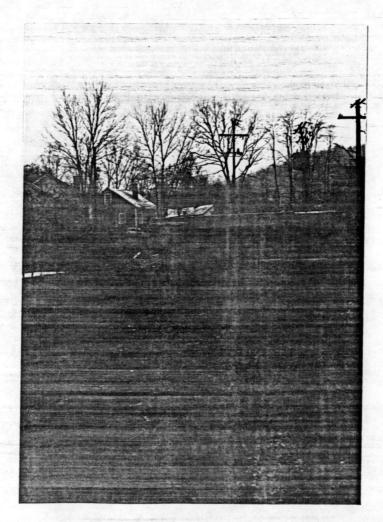


Photo #7 Residential dwellings located adjacent to PCB contaminated soils and transformers.

DRIGINAL

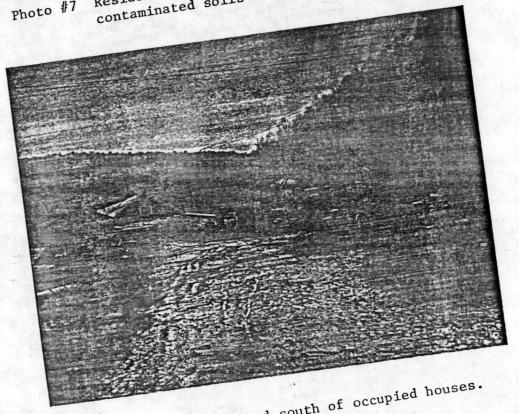
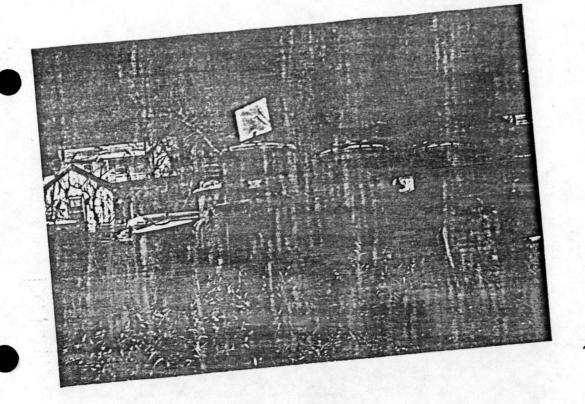
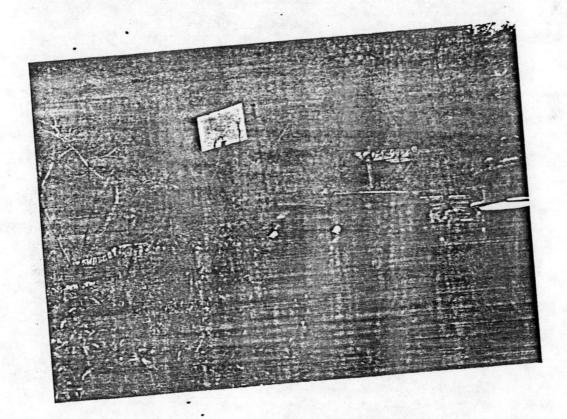
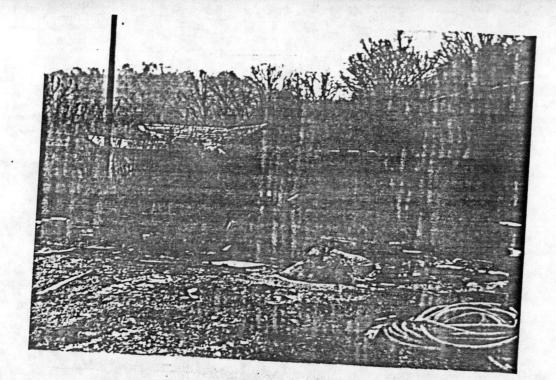


Photo #8 Office located south of occupied houses.





Photos 9 and 10: Transformers



Photos 11 and 12: Transformers and capacitors



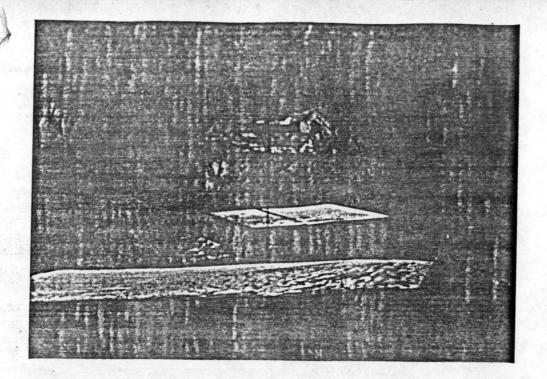


Photo #13: Capacitors casings strewn randomly on site.

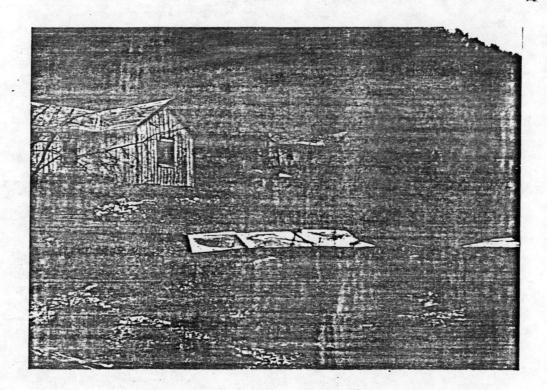


Photo #14: Capacitors casings randomly strewn on site.

'A trash dump is being started and used by residents.

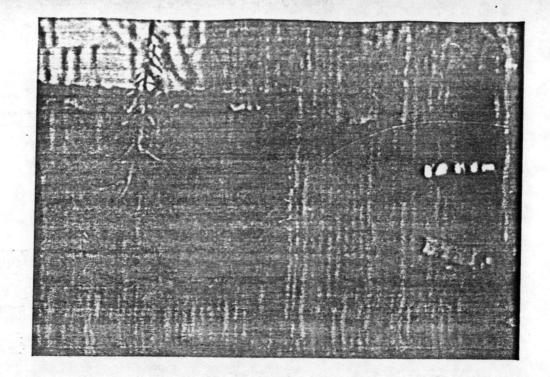


Photo #15: Sodium Nitrate/Nitrite drums are partially burded (fertilizer)

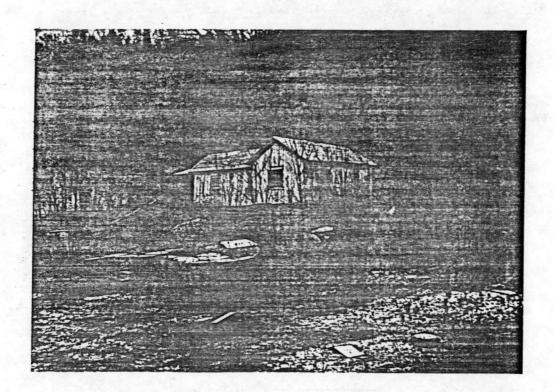


Photo #16: Miscellaneous drums accumulated on site.

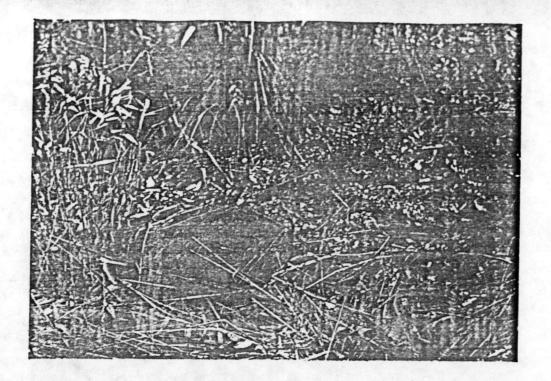


Photo #17: Oily residues in the ground.

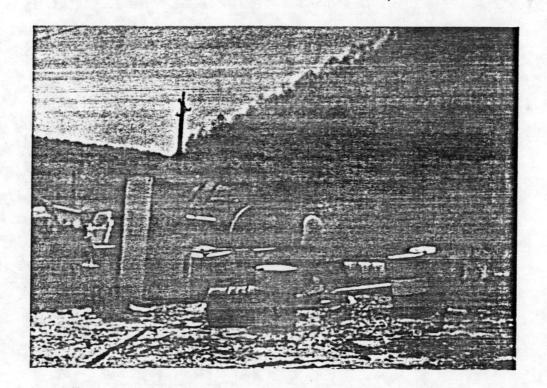


Photo #18: Preliminary assessment.

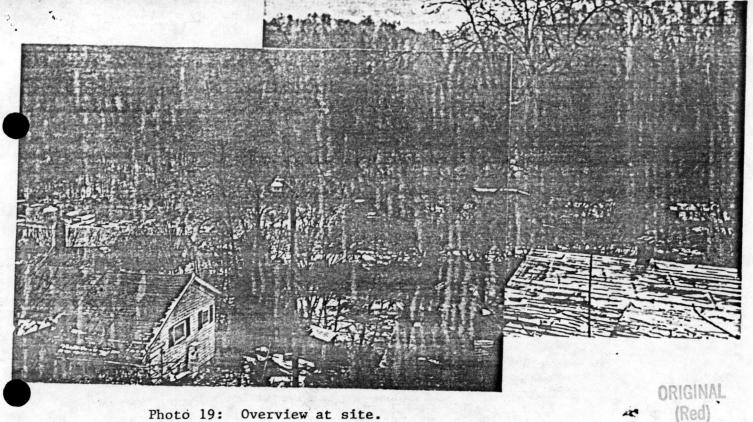


Photo 19: Overview at site.

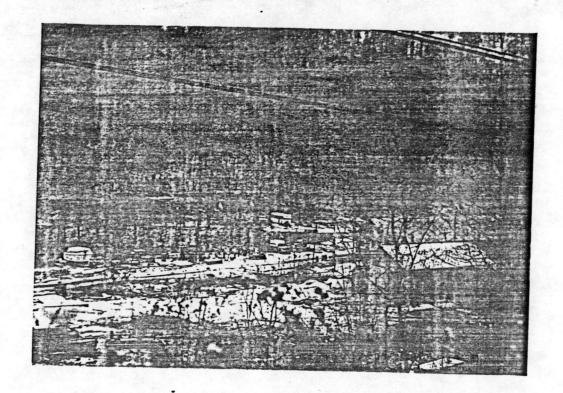


Photo #20: Site overview office, shop, good staged transformers and capacitors.

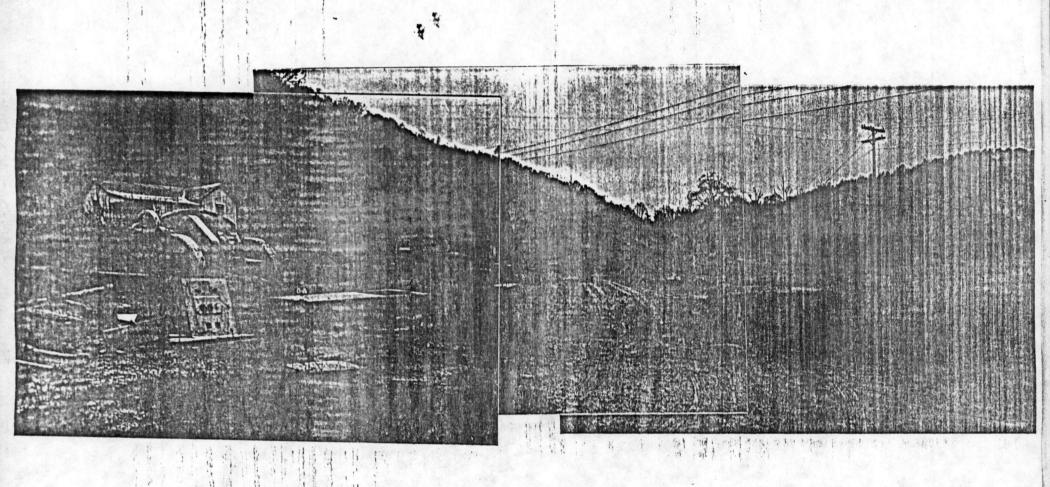


Photo 21: Wide angle overview of site. Transformers, drums, capacitors, contaminated soils, close residents.

Solic 3, 5030 Control Highway, Pennsanken, NJ (5109 + 5009) 963-1995

THE BIND AL ASSISTANCE TEAM FOR EMPRGENCY RESPONSE REMOVAL AND PREVENTION A CQ17; RACT 78 01/7/59

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SPEAROT:

Preliminary Assonsment - Schaffer Electric Company

PCB Site in Minden, West Virginia

. Background West Virginia Department of Natural Resources (DNR) inspector Leroy Gilbert discovered the Schaffer Electric Company (SECO) Site in late September 1984. During his initial inspection he observed several hundred transformers and capacitors in close proximity to the small coal camp of Minden, West Virginia. A four point composite and a grab sample from the drainage ditch to Arbuckle Creek were collected. The samples revealed 26,749 ppm PCB and 1,136 ppm PCB respectively.

Findings

On October 3, 1984 TAT members (b) (4) with West Virginia DNR inspectors Leroy Gilbert and Rob Jelacic. assessment team met with the property owner and secured permission to conduct the assessment. Schaffer Electric Company is an operating firm that builds electric substations for the local coal mining industry. Many of their units incorporated various sizes of transformers, capacitors, switches and other voltage regulation/distribution devices. Mrs. Schaffer instructed her forklift operator to separate the useable transformers in the yard from the ones they had no use for. The operator initiated this operation while the assessment team was present.

A total of approxiately 150 transformers and 50 capacitors were observed. Most of the capacitors were laying on their sides. Several capacitors had broken insulators with heavy oil spillage in the vicinity. Evidence that at least 2 transformers were initially filled with PCB fluids was obtained from nameplate inspections; "chlorextol" and "pyranol" labels were observed.

A total of 8 soil/sediment samples were obtained during the assessment. Sediment samples were taken in Arbuckle Creek upstream and downstream of the confluence of the main drainage ditch. In the main capacitor spillage area, a surface sample and a 12" come sample were obtained. Both samples were softwated with oil. The rouniping samples were taken throughout the site

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The samples were packed into a cooler and transported to the TAT Region III office. Chain-of-custody protocols were followed throughout transport and shipping of samples.

All samples were shipped to Martel Laboratories in Baltimore, Maryland for rapid turnaround PCB analysis using EPA method 8080. Verbal results are expected by 10/30/84.

Attachments:

- 1) Site sketches
- 2) Chain-of-custody
- 3) Photographs

Meeting of own, Stagelacia

July 23 1985

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